



**HEXA-COVER® OIL & GAS  
REFERENCES**

PROVEN TECHNOLOGY SINCE 2004  
MANUFACTURED IN EU, NORTH AMERICA AND  
AUSTRALIA

## Canada

More than 3.000 installations for the Hexa-Cover® Oil & Gas technology has been deployed, for controlling i.e.:

Reduce tank vent emissions such as BTEX Benzene, Toulene, Ethylbenzene and Xylene

Lower tank head space vapour load burdens

Reduce water vapour

Reduce heat loss

Insulation for liquid surfaces

Reduce offensive and carcinogenic BTEX odours

Reduce expensive defoaming chemicals

Reduce energy consumption

## Harold Marcus Terminals, Inc.:

*"In an attempt to reduce fuel odors, and benzene emissions, it was decided to install a Hexa-Cover® Floating Cover system on one of our transmix tanks (gas & diesel mixed), here at the Marcus Terminal in January 2016.*

*The tank chosen is a 4000 bl. tank, measuring 30 feet wide and 32 feet high. Installation was facilitated through a 24 inch manway cover on top of the tank, where by a large nylon bag containing 1.200 individual hexagonal, interlocking "pucks", was suspended over the manway, using a crane, and the tie on the bottom of the bag released, dispensing the 1.200 pucks in the bag, into the tank, in a matter of seconds. This procedure was repeated for three bags, and in the space of an hour and a half, the installation was complete. A box of 24 additional pucks was supplied and added as the covers came together and interlocked on the fluid surface, exposing gaps.*

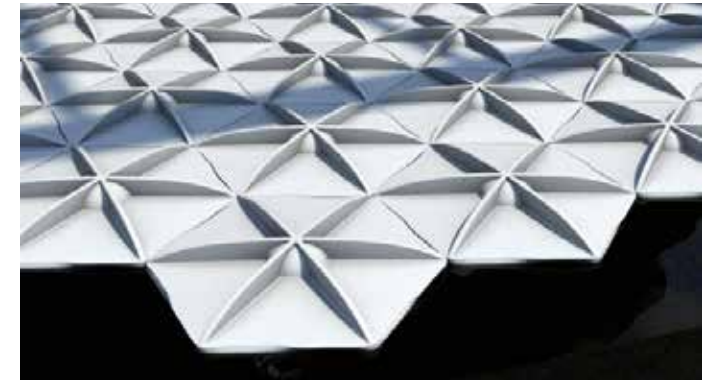
*Since the cover has been installed, it has been observed that odor in the headspace, of the tank has been reduced by an estimated 90%, and around the exterior of the tank, the odor is at times, non-existent.*

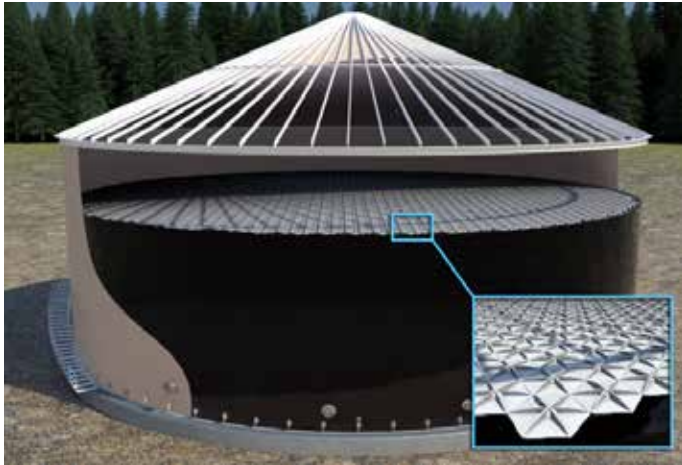
*Testing of benzene emissions in the headspace of the tank, is ongoing, with preliminary results indicating a reduction of 60 %.*

*To date, we are very pleased with the performance, and simplicity of Hexa-Cover® Floating Cover that we have installed on our transmix storage tank"*

John Barnes, Harold Marcus Terminals, Inc.

October 2017 Harold Marcus Terminals covered another tank with Hexa-Cover® Floating Cover





*In order to prevent heat loss and improve cost effectiveness, Canadian Natural and a joint venture partner created and tested the installation of a floating blanket that insulates the oil and contains the heat.*

*This floating blanket consists of several hundred polymer, hexagonal interlocking tiles. Implementation of this floating blanket created a fuel savings of approximately 20 per cent.*

*By consuming less fuel, we expect to avoid over 27kt CO<sub>2</sub>e/year of emissions over the 10-year life of the project.*

*To date, Canadian Natural has installed these floating blankets in over 2,000 heavy oil wells and intends to continue installing them in most of our heavy oil production tanks”*

## **CNRL - Canadian Natural Resources Ltd**

*“Due to the viscosity of produced heavy oil, we need to heat our storage tanks to 80°C in order to liquefy the oil for transport.*

*Our goal was to reduce the amount of fuel consumed to maintain the temperature in our heavy oil production tanks.*

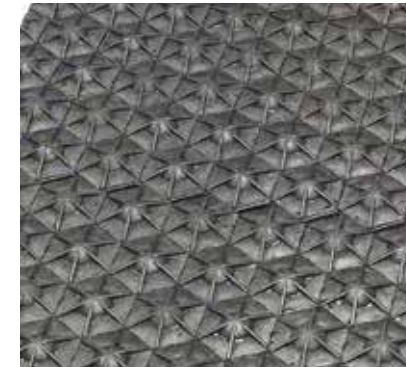
*The storage tanks are already insulated but a void space exists between the top of the oil and the top of the storage tank where heat rises and escapes. I*

## **Brazil**

RS region: wastewater, petrochemical

## **China**

Dongguan - industrial wastewater  
 Jinzhou CNPC - contaminated wastewater  
 Nanjing - industrial wastewater  
 Tianjin - 3.300 m<sup>2</sup> wastewater tanks (petrochemical)  
 Qilu SinoPec - contaminated wastewater



## **Chile**

Santiago - refinery 800 m<sup>2</sup> wastewater facility  
 Santiago - refinery 2.400 m<sup>2</sup> wastewater facility  
 BioBio - refinery 2.500 m<sup>2</sup> wastewater facility  
 ConCon - refinery 2.700 m<sup>2</sup> wastewater facility

## Denmark

DK-4400 - refinery, watertank (VOC - benzene, toluene)

## Finland

FIN99250 - CCD (counter current decantation)

## France

F-13165 - diesel tank

F-36670 - wastewater, VOC

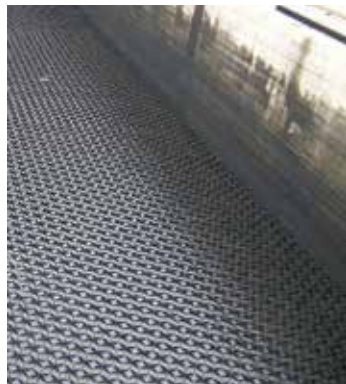
F-93155 - waste collection pit with diesel, gasoline and heating oil

## Germany

D-06237 - refinery 2.300 m<sup>2</sup> water storage facility

## Italy

I-95121 - refinery, water storage facility



## Kazakhstan

Aktoga - 4.000 m<sup>2</sup> PLS reservoir

Almaty - 1.650 m<sup>2</sup> PLS reservoir



## KSA

4.800 m<sup>2</sup> wastewater facility  
(Hexa-Cover® Oil & Gas API version).

1.100 m<sup>2</sup> wastewater pond - 60-90°C (VOC etc)  
Hexa-Cover® Oil & Gas Heavy Duty  
Hexa-Cover® Oil & Gas Extreme Duty



## Norway

N-5954 - wastewater / crude oil

## Spain

E-08272 - hazardous wastewater  
E-43110 - styrene

## Switzerland

CH 1868 - water storage facility  
CH 8353 - water storage facility

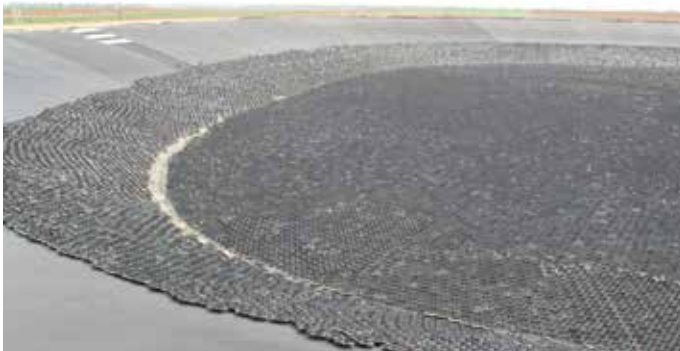
## UK

DA11 - industrial water storage  
EH27 - industrial wastewater

## USA

Clarksburg, 36036 WV - 2.315m<sup>2</sup> frac water tank  
Dallas, 26301 WV - 2.315 m<sup>2</sup> frac water tank  
Pacheco, CA - 1.800 m<sup>2</sup> water reservoir





**For more information**

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